

Appl. No. To Be Assigned; Group Art Unit: To Be
Assigned; Inventors: Michelle M. Hanna.; Tel:
202.371-2600
Title: Molecular Detection Systems Utilizing
Reiterative Oligonucleotide Synthesis

ATATACGGGCTACAGGTTAAGTCAACAGGGATTGAAATATAACTTTAAACAGAGCTGGATTATCCAGT
AGGCAGATTAAGCATGTGCTTAAGGCATCAGCAAAGTCTGAGCAATCCATTTTTTAAACGTAGTACATGTTTT
TGATAAGCTTAAAAAGTAGTAGTCACAGGAAAAATTAGAACTTTTACCTCCTTGCGCTTGTTACTCTTTAGT
GCTGTTAACTTTTCTTTGTAAGTGAGGGTGGTGGAGGGTGCCATAATCTTTTACGGGAGTAAGTTCTTCTT
GGTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTGAGACCAAGTTTCGCTCTTGTCTCCAGGCTGGAGTGCAA
TGGCGCGATCTCGGCTCACTGCAACCTCCGCTTCTCCTGGGTCAAGCGATTCTCTACATCAGCCTCCGA
GTAGCTGGGATTACAGGCATGCGCCACCAAGCCCCGCTAATTTTGTATTTTGTAGTAGAGACAGGGTTTCGC
CATGTTGGTCAGGCTTGTCTCGAACTCCTGGCTCAGGTGATCCGCTGTCTCGGCTCCAGAATGCTGG
GATTATAGACGTGAGCCACCGCATCCGACTTTCTTTTATGTAATAGTGATAATTCTATCAAAGCATTTTTT
TTTTTTTTGAGTCGGAGTCTCATTCTGTCAACCAGGCTGGAGGGTGGTGGCGCATCTCGGCTTACTGCAA
CCTCTGCCTCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGAATTACACACGTGCGCCA
CCATGGCCAGCTAATTTTTGTATTTTAGTAGAGACGGGTGTCAACATTTGGCCAAGCTGGCCTCGAACTC
CTGACCTCAGGTGATCTGCCGCTCGGCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCTCCT
GCTCAAAGCATTTTCTTTCTATGCCTCAAACAAGATTGCAAGCCAGTCTCAAAGCGGATAATTCAAGAGC
TAACAGGTATTAGCTTAGGATGTGTGCACTGTTCTTAAGGCTTATATGTATTAATACATCATTTAACTCACA
ACAACCCCTATAAAGCAGGGGGCACTCATATTCCTTCCCTTTTATAATTACGAAAAATGCAAGGTATTTTC
AGTAGGAAAGAGAAATGTGAGAAGTGTGAAGGAGACAGGACAGTATTTGAAGCTGGTCTTTGGATCACTGTG
CAACTCTGCTTCTAGAACACTGAGCACTTTTCTGGTCTAGGAATTATGACTTTGAGAATGGAGTCCGTCTT
CCAATGACTCCCTCCCATTTTCTATCTGCCTACAGGCAGAATTCTCCCCGTCCGTATTAATAAACCTCA
TCTTTTCAGAGTCTGCTTTATACCAGGCAATGTACAGTCTGAGAAACCTTGCCCCAGACAGCCGTTTTAC
ACGCAGGAGGGGAAGGGGAGGGGAAGGAGAGAGCAGTCCGACTCTCCAAAAGGAATCCTTTGAACTAGGG
TTTCTGACTTAGTGAACCCCGCTCCTGAAAATCAAGGGTTGAGGGGTAGGGGGACACTTTCTAGTCGTA
CAGGTGATTTGATTTCTCGGTGGGCTCTACAACAGGAAAGAAATAGTTTGCTTTTCTTATGATTAAGAA
AGAAGCCATACTTCCCTATGACACCAACACCCGATTCAATTTGGCAGTTAGGAAGGTTGTATCGCGGAG
GAAGGAAACGGGGCGGGGCGGATTTCTTTTAAACAGAGTGAACGCACTCAAACACGCTTTGCTGGCAGG
CGGGGAGCGCGCTGGGAGCAGGAGGCGGAGGGCGGTGTGGGGGAGGTTGGGAGGAGCCAGT
CCTCCTTCTTGCCAACGCTGGCTCTGGCGAGGGCTGCTTCCGGCTGGTGCCCCGGGGGAGACCCAACC
TGGGGCGACTTCAGGGGTGCCACATTCGCTAAGTGCTCGGAGTTAATAGCACCTCCTCCGAGCACTCGCTC
ACGGCGTCCCCTTGCTGGAAGATACCGGCTCCCTCCAGAGGATTTGAGGGACAGGGTCGGAGGGGGC
TCTTCCGCCAGCACGGAGGAAGAAAGAGGAGGGCTGGCTGGTCACCAGAGGGTGGGGCGGACCGCGT
GCGCTCGCGGCTGCGGAGAGGGGAGAGCAGGCAGCGGGCGGGGAGCAGCATGGAGCCGGCGGC
GGGGAGCAGCATGGAGCCTTCGGCTGACTGGCTGGCCACGGCCGGCCCGGGGTGGGTAGAGGAGGT
GCGGGCGCTGCTGGAGGCGGGGCGCTGCCAACGCACCGAATAGTTACGGTCGGAGGCCGATCCAGGT
GGGTAGAGGGTCTGCAGCGGAGCAGGGGATGGCGGGCACTCTGGAGGACGAAGTTTGAGGGGAATT
GGAATCAGGTAGCGCTTCGATTCTCCGGAAGGGGAGGCTTCTGGGGAGTTTTCAGAAGGGGTTTGT
ATCACAGACCTCCTCCTGGCGACGCCCTGGGGGCTTGGGAAGCCAAGGAAGAGGAATGAGGAGCCACGG
CGTACAGATCTCTGAATGCTGAGAAGATCTGAAGGGGGGAACATATTTGTATTAGATGGAAGTATGCTCTTT
ATCAGATACAAAATTTACGAACGTTTGGGATAAAAGGGAGTCTTAAAGAAATGTAAGATGTGCTGGGACTAC
TTAGCCTCCAATTCACAGATACCTGGATGGAGCTTATCTTTCTTACTAGGAGGGATTATCAGTGGAATCTGT

FIG. 29

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GGTGTATGTTGGAATAAATATCGAATATAAATTTTGATCGAAATTATTCAGAAGCGGCCGGCGCGGTGCCTC
ACGCCTTGTAATCCCTTCACTTTGGGAGATCAAGCGGGGGGAATCACCTGAGGTCTGGGAGTTCGAGACCA
GCCTGGCCAACAGGTGAAACCTCGCCTCTACTAAAAATACAAAAAGTAGCCGGGGGTGGTGGCAGGCGCCT
GTAATCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCTGAGGTTGTAGTGAAC
AGCGAGATGGAGCCACTTCACTCCAGCCTGGGTGACAGAGTGAGACTTTGTGAAAGAAAGAAAGAGAGAA
AGAGAGAGAGAAAAATTATTCAGAAGCAACTACATATTGTGTTTATTTTAACTGAGTAGGGCAAATAAATATA
TGTTTGCTGTAGGAACCTAGGAAATAATGAGCCACATTCATGTGATCATTCCAGAGGTAATATGTAGTTACCAT
TTTGGGAATATCTGCTAACATTTTTGCTCTTTTACTATCTTTAGCTTACTTGATATAGTTTATTTGTGATAAGAG
TTTTCAATTCCTCATTTTTGAACAGAGGTGTTTCTCCTCTCCCTACTCCTGTTTTGTGAGGGAGTTAGGGGAG
GATTTAAAAGTAATTAATACATGGGTAACCTAGCATCTCTAAAATTTGCCAACAGCTTGAACCCGGGAGTTTG
GCTTTGTAGTCCTACAATATCTTAGAAGAGACCTTATTTGTTTTAAAAACAAAAAGGAAAAAGAAAAGTGGATAG
TTTTGACAATTTTTAATGGAG

FIG. 30

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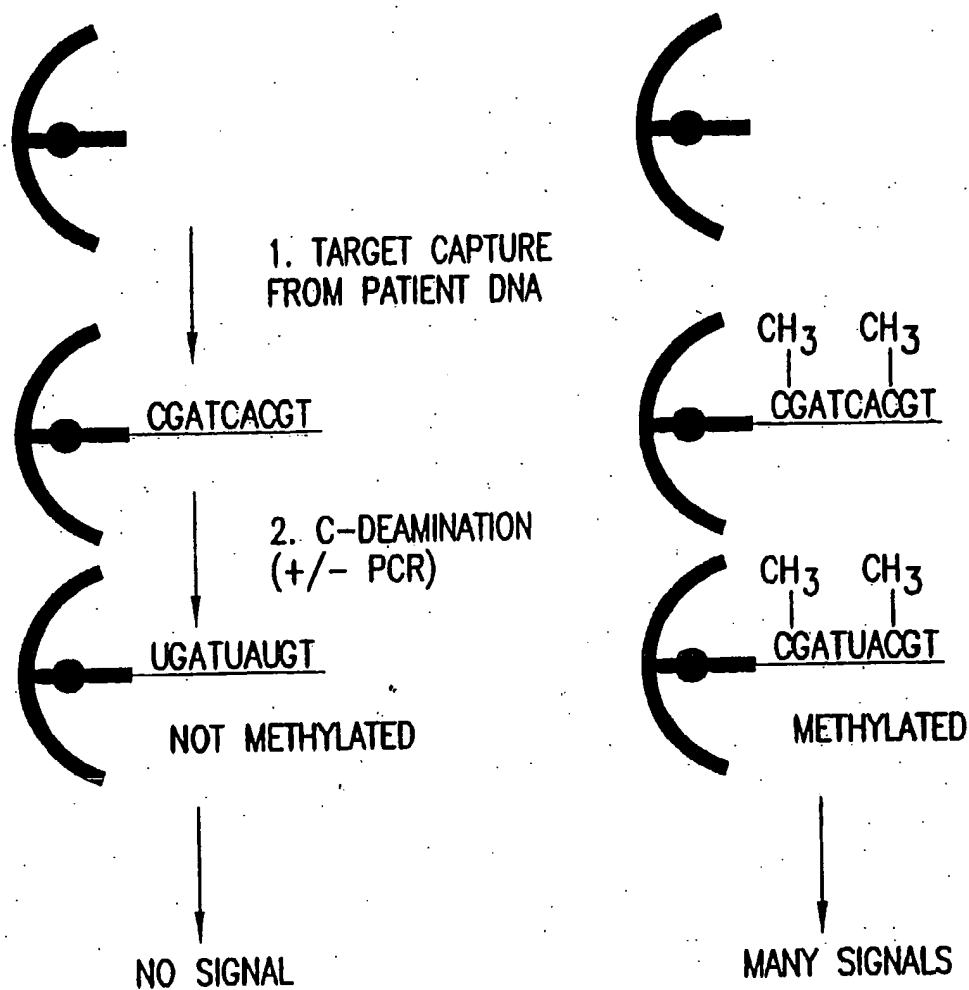


FIG.31